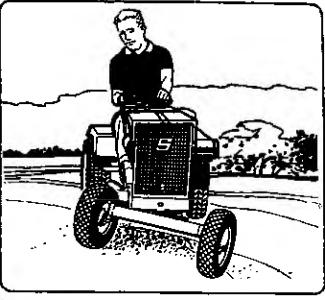
Simplicity



Mfrs. No. 494-3112 MANUAL LIFT Mfrs. No. 495-3112 POWER LIFT

SOVEREIGN

RIDING TRACTORS

VARIABLE SPEED DRIVE



SHEV

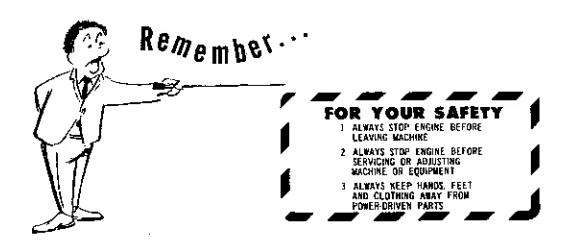
TP - 1301

WARRANTY

The company warrants Simplicity Products to be free from defects in material and workmanship except the company makes no warranty express or implied with respect to tires, engines and engine accessories which generally are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year, under normal use, from date of purchase, will be replaced free of charge, Lo.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid and is found to be defective upon examination at the factory. The company is not obligated under this warranty to bear cost of labor or delivery charges in replacement of defective parts. This warranty does not apply to any Simplicity Products aftered outside of Simplicity's factory. Such replacement of defective parts shall be the exclusive remedy and in no event shall Simplicity be liable for consequential damages. EXCEPT AS SPECIFICALLY PROVIDED HERE-IN, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON ANY SIMPLICITY PRODUCT.

Should warranty service benecessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name		
		·
Date Purchased		<u></u>
		· · · · · · · · · · · · · · · · · · ·
Engine Model No.	Serial No.	Туре №
To obtain 'replacement pa	arts from dealer, advise qua	ntity, part number and description.



PACKING

This tractor is delivered complete in one carton. The carton contains:

- 1 Tractor Assembly
- 1 Hood Assembly
- 1 Steering Wheel (secured to side of tractor)
- 1 Hardware Pack

Should any shortages of the above items occur, advise by stating packers number listed on green packing slip, serial number of tractor, part number and description of items missing.

ASSEMBLY

REAR LIFT GROUP

The Rear Lift Group is to be installed in the following manner:

- 1. Remove 3 hex capserews from left side of tractor as shown in Figure 1.
- 2. Swing hitch member outward and install lift assembly as shown. Return hitch member to original position and replace hex capscrews. See Figure 2.
- 3. Insert right end of lift assembly into hole in right hitch member and position lift assembly so that collar is flush against right hitch member. Position collar on left side of lift assembly so it is flush against left hitch member. Tighten socket head setscrew with Allen wrench. See Figure 3.
- 4. Connect lift assembly to rear lift group. Secure with cotter pin. See Figure 3.
- 5. Adjust rear lift rod so that there is clearance between the gear case and the lift assembly when the lift lever is in the forward, latched position. Also adjust rod so that the lift assembly will strike the gear case before the lift lever strikes the air cleaner on engine when lift lever overtravels forward.

BATTERY

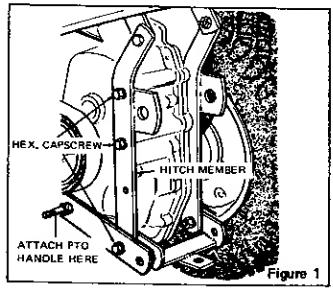
Remove battery from tractor. Service as stated in the battery instructions. Replace and secure battery in tractor.

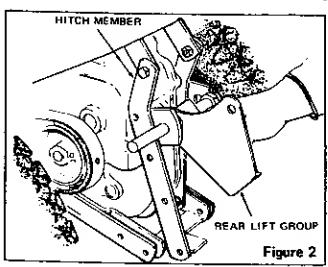
STEERING WHEEL

Remove steering wheel from side of tractor. Assemble steering wheel on the steering shaft using the woodruff key and setscrew which is provided in the hardware pack. Assemble steering cap over hub of steering wheel.

HOOD

Remove the hood assembly from its container. Mount hood on the tractor using the (4) thumb screws provided in the hardware pack.





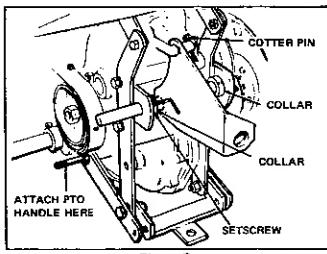


Figure 3

ENGINE LUBRICATION

Service air cleaner and crankcase as recommended in Engine Service Manual. Be sure air cleaner is maintained in clean condition. Never use oil in crankcase for more than 25 hours of operation. See Figure 11. CLEAN AIR AND CLEAN ENGINE OIL WILL GIVE LONG TROUBLE FREE OPERATION. DIRT WILL RUIN YOUR ENGINE IN A SHORT TIME. A funnel and extension are included with the tractor for use in changing oil.

The bevel gear housing has a capacity of one pint of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and oil seals for leakage. Keep oil up to lever of filler plug. See Figure 8.

TRACTOR LUBRICATION

The tractor has a total of 3 grease fittings which require lubrication with general purpose automotive grease. Use a standard grease gun for the following fittings:

- (2) Front Spindles Figure 4
- (1) Rear Axle Tube Figure 7

Before lubricating, wipe each grease fitting with a rag to prevent grit and dirt from being cartied into bearings with new grease.

The transmission has a capacity of 1-1/2 qts, of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and axle tube oil seals for leakage. Maintain oil level at lower edge of filler plug hole. Remove vent plug from top of transmission and allow oil to settle to normal level before checking. See Figure 7.

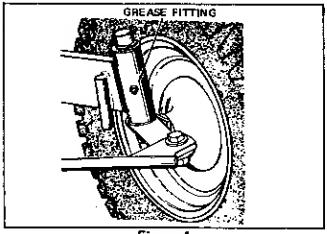


Figure 4

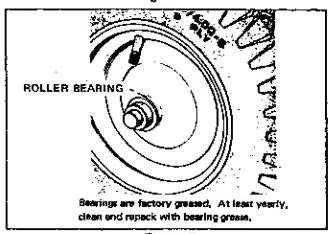


Figure 5

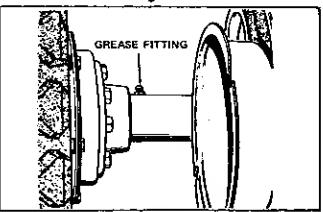
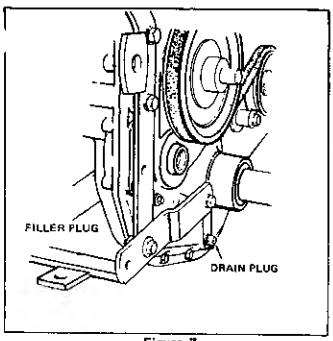


Figure 6





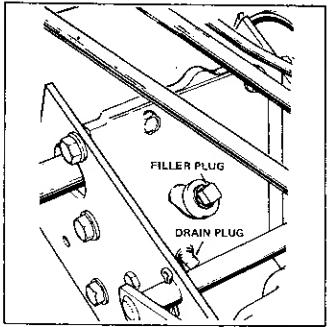


Figure 8

STARTING ENGINE

- 1. Place gear shift lever in neutral position. See Figure 9. (Be sure tractor is on level ground and will not roll away in neutral. Apply parking brake).
 - 2. Pull choke knob out. See Figures 9 & 10.
- 3. Set throttle lever in mid position and turn ignition key clockwise to start engine and release. See Figure 9. As engine warms up, push choke knob in. Pull throttle knob out to desired position and turn to lock,

TO STOP ENGINE

With clutch disengaged, place gear shift in any gear and turn ignition key counterclockwise to vertical (Off) position. Engage clutch to hold tractor in parked position and remove ignition key for safekeeping. Apply parking brake,

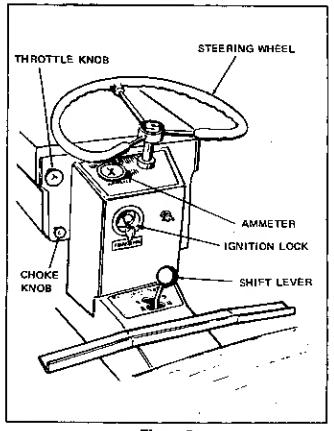


Figure 9

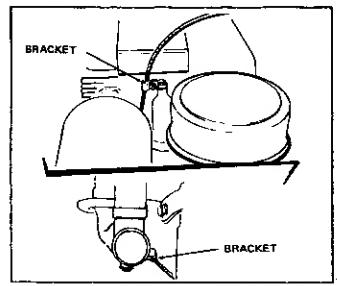


Figure 10

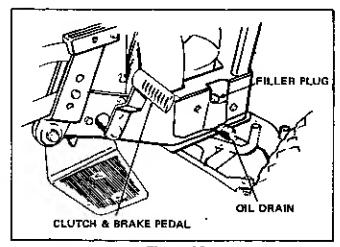


Figure 11

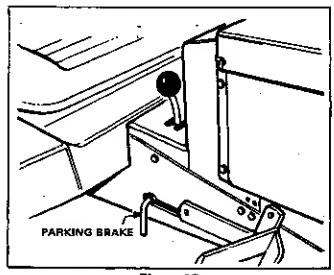


Figure 12

OPERATION OF TRACTOR

To place gear shift in desired gear range, depress the combination brake and clutch pedal located on right hand side of tractor. See Figure 11. When pedal is depressed, move shift lever to desired position (See Figure 9) and gradually release pedal until clutch is engaged. When shifting from one range to another, pause briefly in neutral before completing shift. Set throttle lever to obtain desired speed. See Figure 9.

PARKING BRAKE

To operate the parking brake, hold the brake pedal depressed and slide the parking brake lever all the way to the rear of its slot and turn the lever in a clockwise direction until it is tight. Refer to Figure 12.

To release the parking brake, turn the parking brake lever in a counterclockwise direction until the brake pedal is released.

CLUTCH ADJUSTMENT

Position the locknuts to leave a space of about 7/8" between them and the end of the rod guide with variable speed lever in "low speed position".

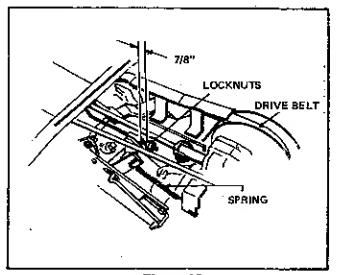


Figure 13

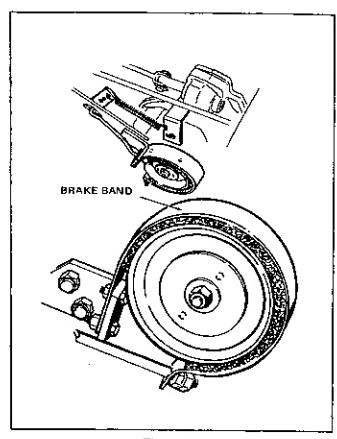
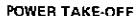


Figure 14

BRAKE ADJUSTMENT

Should brake adjustment be necessary on the Sovereign tractor, follow the instructions as listed under the CLUTCH, BRAKE AND BELT ADJUSTMENTS for the variable speed.



LUBRICATION

The power take-off is lubricated by means of one grease fitting located on the bottom front of the drive bracket assembly. Occasionally apply grease by means of a standard grease gun loaded with automotive type grease. Be sure to wipe dirt and grit from grease fitting before applying grease gun. Lubricate all pivot points and idler pulley bearings with SAE 20 oil every few hours of operation,

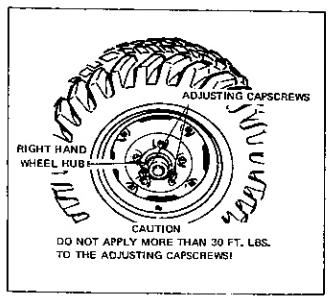


Figure 15

DIFFERENTIAL

The tractor is equipped with a controlled traction differential. Tightening the liex head capscrews in the right hand wheel hub (See Figure 15), provides pressure against a nylon plug and sleeve around the tractor axle and prevents excessive wheel slippage when the tractor is being used under abnormal conditions. The adjusting capscrews are set at the factory to a torque of 25 ft. lbs. As the nylon sets itself through use, it may be necessary to readjust the capscrews a few times to maintain 25 ft. lbs. of torque (25 lbs. weight on wrench I ft. long).

OPERATION

Operation of the power take-off is controlled by movement of the clutch lever assembly. See Figure 16. When the clutch lever is in the forward raised position, the clutch rod releases the tension holding the idier pulley against the drive helt and power will not be transmitted to the driven pulley of the power take-off assembly. When the clutch lever is in the back, depressed position, the clutch rod applies tension to the idler pulley and as the idler pulley takes up the slack in the drive belt, power is transmitted from the drive pulley on bevel gear box shaft to the driven pulley of the power takeoff. Figure 16 shows clutch lever in drive position.

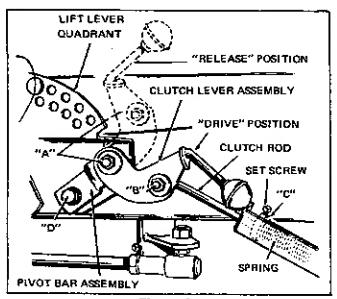


Figure 16

ADJUSTMENT

At points "A" and "B" of Figure 16, check tightness of hex nut to be sure that clutch lever assembly and clutch rod are free to pivot without binding.

Place clutch lever in "Drive" position and observe clearance between collar "C" (Figure 16) and end of bracket. When implement is attached to tractor, this clearance should normally be approximately 3/4". At this setting the idler pulley should be snugly against the drive helt. If additional tension is required, release clutch lever and loosen setserew on collar and slide collar farther back on clutch rod. Retighten setserew in collar and put clutch lever in "Drive" position. Recheck clearance. The tension of the idler pulley against the drive belt must be sufficient to operate whichever tractor attachment is being used. Any additional tension is unnecessary and will only cause premature failure of helts and idler pulley bearings.

TIRES

The tires of the tractor are inflated with air pressure in excess of the normal amount for shipment. For comfort of operation, release some of the pressure until a pressure of 10 lbs. per square inch is attained for Front Tires and 7 lbs. per square inch is attained for Rear Tires. Maintain tires at these pressures.

OPERATION - POWER LIFT KIT

The Power Lift Kit which is an optional feature on the Landlord & Sovereign Tractors is used to raise and lower various attachments with finger-tip pressure applied to the control lever.

To raise a front mounted attachment, pull the power lift lever backward. When the desired height is reached, release the lever and it will return to the "hold" position. To lower a front mounted attachment, push the lever to the front, then release when desired depth is reached.

A rear mounted attachment is raised by pushing forward on the lever and is lowered by pulling the lever backward.

The index tabs at each end of the quadrant serve as lock points for the "float" position which allows an attachment such as a dozer blade, grader blade or snow thrower to follow ground contours freely.

NOTE

The Rear Mounted Titler Attachment should be operated only in the rear "float" position. Do not operate the tiller in the "hold" position, as difficulty will result if an obstacle is encountered. This would raise the rear wheels off the ground and propel the tractor forward at a dangerous rate. To get in or out of either "float" position, squeeze the release bar handle upward to clear the index tab.

Front mounted attachments such as the snow thrower and dozer blade may be operated with the power lift lever in the "hold" position. However, downward pressure will be exerted on the attachment thus preventing the snow thrower or blade from following the contour of the ground.

BATTERY INSTRUCTIONS

With proper care this battery should give the long service life built into it.

A battery which does not function properly is not necessarily worn out or defective. It may only need a good recharge. Therefore, if battery trouble is use per ted, a full recharge and test by a competent battery man is recommended.

PUTTING DRY-CHARGED BATTERIES IN SERVICE

Remove wicks or tape covering from vent hole in filler caps. Make sure vent holes are open so haltery gases produced when battery is charging can escape. If necessary, run a line wire in vent hole to be sure it is open and free of all obstructions.

full battery with 1.265 specific gravity electrolyte or acid to proper level or 3/16 inch above places and separators assuming room, battery, and electrolyte temperature is 70° - 100° Fabrenbeit.

Mlow battery to set for 20 minutes. Battery can then be installed but to obtain best results and maximum capacity, place battery on charge after the 20-minute setting period at 6 amperes until gravity reading is 1.265 - 1.275. If room, battery and electrolyte temperatures are below normal a longer charging period will be mandatory to bring the specific gravity up to 1.265 - 1.275.

WARNING

Under no conditions should battery by filled more than 3/16" over the plates. We cannot be responsible for damages if this warning is not observed.

CARE IN SERVICE

A hydrometer test of the battery solution should be made monthly. If the specific gravity tests 1.225 or less, the battery should be removed and thoroughly recharged. At the same time the solution level should be examined and distilled water added when necessary to retain the level of 3/16° over the plates. When necessary to add distilled water it should always be done just prior to recharging to most the added water thoroughy into the solution.

When we barging is necessary and user-does not have his own charging equipment, he should request service station to slow charge the battery at a rate of 4 to 6 anspects.

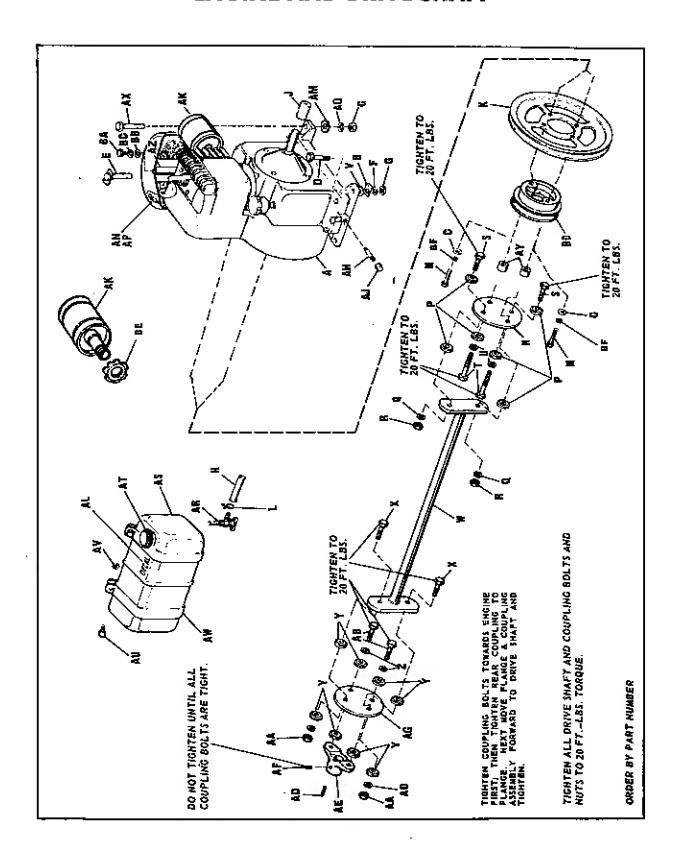
Any collection of grease or any other substance should be kept removed from the top of the battery and the top kept dry and clean at all times. The battery should be kept sing in its cradle and not permitted to get loose. If removed for charging, it should be fastened back in snugly enough to prevent any movement when in use. Vent caps should be kept tight and the small vent holes in top or side of cap be kept open at all times to permit escapage of gases formed in the battery. Care should be exercises not to overfill the battery at any time and to always return 3/16° of solution above the plates.

WINTER CARE

It leatery will not be used during the winter months it should be removed and stored in a cool, dry place. Any collection of grease or other substance should be removed from the top of the battery.

The featury must be recharged monthly or whenever the hydrometer reads less than 1-225. Before reinstalling the battery in the spring, it should always be given a thorough recharge.

ENGINE AND DRIVE SHAFT

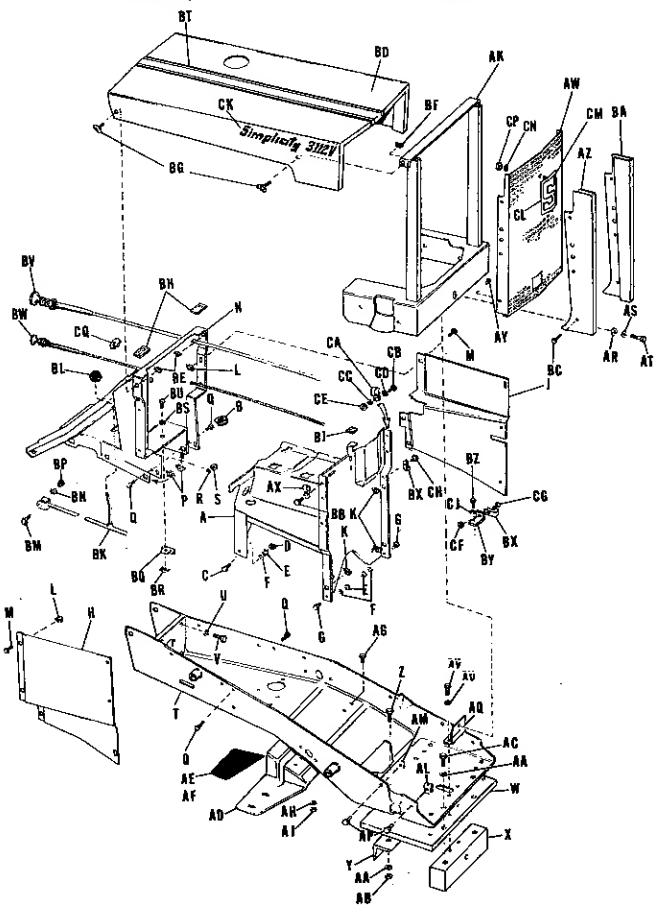


ENGINE AND DRIVE SHAFT

ORDER BY PART NUMBER

	<u>,, , </u>	
Ref. L≠t.	Part No.	Description
		
,\ \ <u>\</u>		Engine, Briggs & Stratton
B	157144	Stop Axle
! !	720002	Lock Washer, 3/8"
	705010	Hex. Cap Serew, 3/8"-16 x 1-3/4" lg.
[E]	157556	Screw Assembly, Engine, L.H. Rear
f	720002	Lock Washer, 3/8"
"	717003 157316	Full Hex. Nut, 3/8"-16
l J	154327	Fuel Hose (Flexible)
K	157305	Cranksbaft Extension Guard Engine Pulley
	154372	Hose Clamp AFOR SERVICE COLY)
M	715068	Hex. Cap Serew, 5/16"-18 x 2
N	157422	Coupling
р	157424	Special Washer
Q	720002	Lock Washer, 3/8"
lì lì	717003	Full Hex. Nut. 3/8"-16
' s	705016	Hex. Cap Screw, $3/8^{11}-16 \times 1-1/4^{11} \log_{2}$
T	715043	Hex Capscrew, 3/4-16x2-1/2°lg.
ť	720002	Lock Washer, 3/8"
V	719001	Plain Washer, 3/9"
W	157016	Drive Shaft Assembly
X	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4" lg.
Y	157424	Special Washer
2	720002	Lock Washer, 3/4"
1.1	717003	Full Hex. Nut. 3/8"-16
AB	705016	Hex. Cap Screw, $3/8^{12}-15 \times 1-1/4^{12}$
VC.	720002	Lock Washer, 3/8"
AD	137427	Key
AE AE	154194	Drive Shaft Flange
AG	715049 157422	Cup Point Sucket Head Set Screw, 3/8"-24 x 5/8"
\H	157/97	Coupling Pipe Nipole, 5/8 x Pilg,
3.1	726501	Pipe Cap, 3/8"
NK NK	157634	Exhaust Muffler
AI.	157096	Decal, Fuel Tank
VM	719001	Plain Washer, 3/8"
ΔN	157185	Film, Air Cleaner
AP	(5713)	Film, Air Cleaner
10	720002	Lock Washer, 3/8"
AR	156176	Shut-Off Valve
AS	157006	Fuel Tank
λT	156175	Fuel Tank Cap
AU.	705053	Hex. Hd. Capscrew, 1/4"-20 x 1-3/4"
W	717003	Full Hex, Nat. 1/4"-20
1//	162060	Tank Strap
AX	705006	Hex. Het. Capserew, 3/4"-16 x 2" lg.
AY	157041	Spacer
AZ	157126	Air Cleaner Spacer
8.\ 88	71501# 719006	Hen. Hd. Capserew, 1/4"-20 x 5/8"
BC BC	72 0003	Plain Washer, 1/4"
BD	164242	Lank Washer, 1/4"
1517	104271	Polley
BE	154378	Lock Sut
BF	720001	Lock Washer, 5/16°

FRAME, HOOD, GRILL, & INST. PANEL



FRAME, HOOD, GRILL, & INST. PANEL

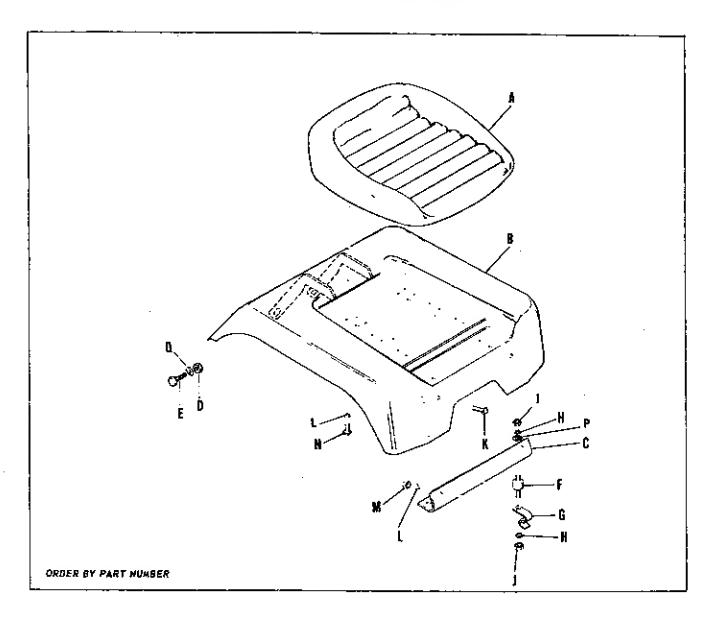
ORDER BY PART NUMBER

	<u> </u>	
Ref.	Part	
Let.	No.	Description
A	164003	Support Assembly, Fuel Tank & Battery
19	157077	Steering Bushing
С	705019	Hex. Cap Screw, 5/16"-18 x 1-1/4"
D	717511	Full Lock Hex. Nut, 5/16"-18
E	717001	Full Hex. Nut, 5/16"-18
F	720001	Lock Washer, 5/16**
G	705012	Hex. Cap Screw, 5/16**-18 x 5/8**
H	164014	R. H. Side Panel
J	164013	L. H. Side Panel
K	714032	Nut Retainer
[.	718043	Nut Retainer
M	715014	Hex. Cap Screw. 1/4"-20 x 5/8"
S 	164232	Inst. Panel Assembly
	718032	Nut Retainer (Frame Cover)
Q	715018	Hex. Cap Screw, 1/4"-20 x 3/9"
R	720003	Lock Washer, 1/4**
T	717005	Full Hex. Nut, 1/4"-20
u u	161010 720006	Frame Assembly
	720006	Lock Washer, 7/16'
V W	705039	Hex. Cap Screw, 7/16"-14 x 1-1/2"
z z	750761 157060	Rase Weight
Ÿ	157060	Front Support, 1-3/4" x 2-1/2" x 8-5/8"
	137482 715090	Angle Assembly (Frame Rear)
ÄA	720006	Hex. Cap Screw, 7/16"-14 x 1-1/2"
AB	720000 717022	Lock Washer, 7/16" Full How New 7/16"
AC AC	706003	Full Hex. Nut. 7/16"-14
/D	157065	Hex. Cap Screw, 7/16**-20 x 1-1/2** Foot Rest
NE.	157090	L. H. Foot Rest Pad
AF	157089	R. H. Foot Rest Pad
AG	705004	Hex. Cap Serew, 3/8"-16 x 3/4"
AH	720002	Lock Washer, 3/8"
Ai	717003	Full Rev. Nat. 3/8"-16
AK	164004	Cover & Tube Assembly
AL.	714022	Retainer Nut (Front)
731	71∜030	Relainer Nut. (Rear)
AP	715082	New Commun Nilster Anatomic Transaction of the
10	157444	Hex Screw, Whiz-Lock Flunge,5/16-18 x 3/4 Bracket Assembly
AR	719002	Plain Washer, 5/16"
138	720001	Lock Washer, 5/16°
AT.	705019	Hex. Cap Seriew, 5/16"-18 x 1-1/4"
Aŭ	720001	Lock Washer, 5/16"
AV	705014	Hex. Cap Seriew, 5/16**-18 x 1-1/2**
AW	164009	Grillo
AN	122195	Ciamp
AY	714003	Self Tapping Serew #816 \ 1/2"
AZ	164024	R. H. Side Plate
BA	164027	L. H. Side Plate
RR	714005	Self-Tapping Serew +10-24 x 1 274g.
BC	714003	Self Tapping Seriew, $v10 \times 1/2^{10}$
BD	164011	Hood
BE	714041	Nut Retainer (Rear)
BF	714024	Nut Retainer (Front)
BG	715037	Thumb Screw
RH	164120	Felt Part
LF1	164121	Folt Part
BK	D#118	Shifter Rod Assembly
BI.	₹021050	Bull
нм	70501∀	Hex. Cap Serew, 5/167-18 x 1-1/23
BN -	720001	Luck Washer, 5 '16"
BP .	717001	Full Hoy, Nat. 3/16% 18
Bc)	157020	Shift Rod Guide Assembly
181	713032	Refainer Nat
BS	720003	Linet, Washier, 1 (4)
1871	164129	Ricel Strip
BU	715015	Hex. Cap Series, 4742 +20 √ 5782
151	164042	Throttle Control
		

ORDER BY PART NUMBER

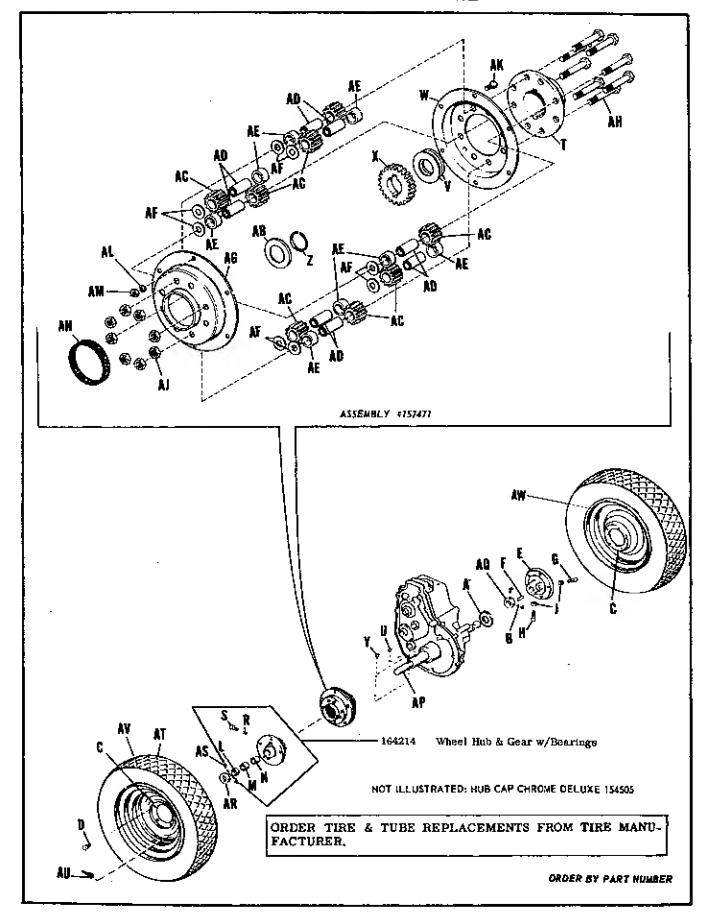
Description
Choke Control Bowden Wire Clip Throttle Cable Bracket Self Tapping Screw, 1/4"-20 x 5/8" Clamp Hex. Cap Screw, 1/4"-20 x 5/8" Lock Washer, 1/4" Plain Washer, 1/4" Full Hex. Nut, 1/4"-20 Full Hex. Nut, #10-32 Mach. Rd. Hd. Screw, #10 -32 x 3/8" Self Tapping Rd. Hd. Screw, #10-24 x 1/2" Lock Washer Simplicity & Number 3132 Film Plate, Assy. Emblem "S" Washer Lock Hex Nut #10-24 Plug Butten

SEAT AND FENDERS



Ref. Let.	Part No.	Description
.3.	156203	Sout Assembly
B	146111	Seat Deck Assembly
C [164029	Seat Deck Bracket, Front
D	717514	Hex. Lockmit, Full, 3:41"-16
E I	705016	Hex. Head Capserew, 3-8"-16 x 1-1/4"
F (159045	Cushion Connector, Front
- 6	164145	Spring Clip
H I	720001	Lock Washer, 5/16"
ı,	717001 1	Rex. Nat., Pull, 5/16*-13
к	705012	Hex. Head Capserew, 5/16" 18 x 5/8" lg.
I.	720001	Luckwasher, 5/16"
M	717001	Bex. Nat. Full. 5/16**-14
N	705012	Box. Rend Capserew, 5/16"-18 x 5/8" lg.
ie l	71900G	Plain Washer 1/4"
Q	721601	Lockwasbyr

REAR WHEELS AND AXLE



REAR WHEELS AND AXLE

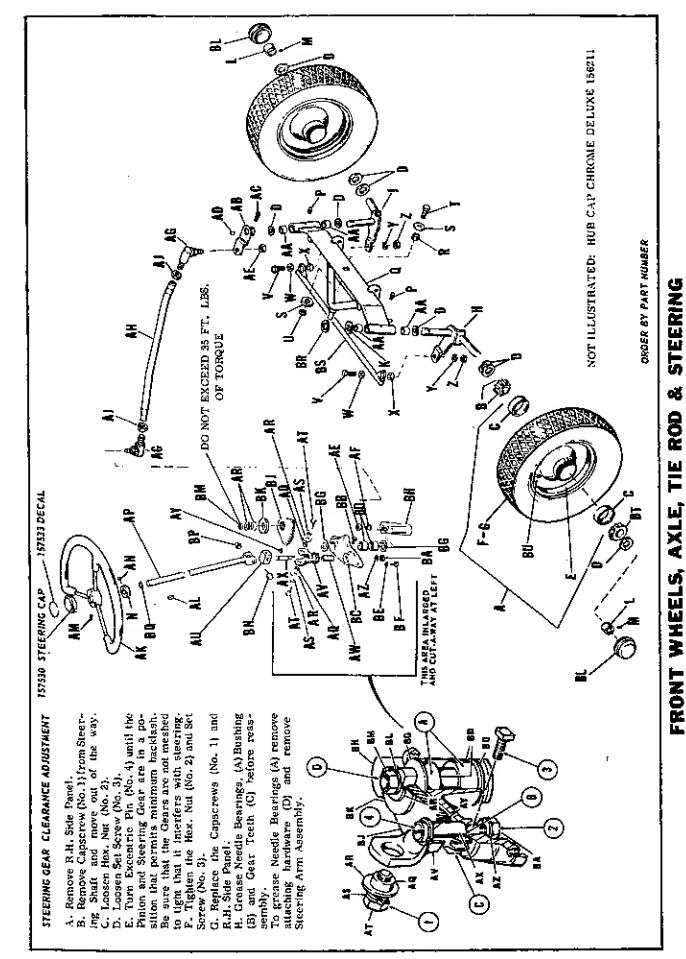
ORDER BY PART NUMBER

	- 	
Ref.	Part	
Let.	No.	Description
		(a seription
A	105050	Washer
15	713002	Set Seriew, 5/16"-19 x 3/8"%.
C	157644	Wheel Drive
[]	4261100	Hub Bolt
E	154204	L. H. Wheel Hub
J ⁻	159129	Kev
G	715022	Set Serew, 3/8"-16 x 1-1/2" lg.
j ii	713004	Set Screw, 3/8"-16 x 1" lg.
1	717021	Hex. Jam Nut. 3/8"-15
1.	105054	Bearing
71	152041	Nylon Bearing
N	153068	Rearing
R	152042	Nylong Plug
s	713508	Control Traction Bolt 7/16"-20 x 1/2"lg
[T	164217	Differential Carrier
į r	157120	Drive Key
V	154035	Axle Washer
W	164218 *	Differential Cover
X	164219	Differential Gear
Y	725501	Hi-Pro Key
Z	154291	Retaining Ring
AB	134277	Ayle Washer
AC	1213[1	Differential Pinion
AD AE	121043	Pinion Differential Spindle
AF	121084	Differential Spacer
ΛG	719002 164220 ×	Plain Washer
AB	164220 × 715043	Differential Cover
N N	717510	Hex. Cap Serew, 3/8"-16 x 2-1/2" Full Lock Hex. Nut. 3/8"-16
AK	705015	Hex. Cap Serew, 1/4"-20 \ 5/8"
31	720003	Lock Washer, 1/4" - 20 \ 5/8"
AM	717005	Full Hex, Nat. 1/4"-20
AN	121190	Differential Cover Seal
AP	164221	Rear Axle
AQ	134063	Axle Collar
AR	154065	Axle Collar
AS	713002	Set Seriew, 5/16"-18 x/3/8"
AT	157637	Tire 10-1/2 x 12
AU	157029	Valve Stem
AV	157636	* Wheel & Tire Ass's,
AW	157638	Tabe (For Service Only)

CAUTION ----

DO NOT EXCEED 25ft. POUNDS OF TORQUE ON PART NUMBER 713508, REFERENCE LETTER (S), CONTROL TRACTION BOLTS.

^{*} Reference letters "W" and "AG" must be replaced in pairs.



FRONT WHEELS, AXLE, TIE ROD & STEERING

--- ORDER BY PART NUMBER

16-1.	1 11 11	
Let.	Part No.	Description
А	157505	Wheel and Tire Assembly
В	154397	Bearing Cone, w/seal
(·	154393	Bearing Cup
D	104141	Washer
F.	157500	Wheel w/Bearing Cup
F	157490	Tire,
ı i	164247	Tube (18 o 16 x 650 x 8)
l H	157494	Spindle Assembly, R.H.
, j	157611 3061012	Spindle Assembly, L.H. Washer
] Î.	4021010	Set Collar
1 M	713503	Cup Point Socket Head Set Seriew, 5/16"-18 x 5/16" lg.
1	8021010	Set Collar
J' 1	727001	Grease Fitting
ļ ģ	157616	Axle Assembly, Front
} ik	157618	Spacer
- 5	7 19004	Plain Washer, 1/2"
T	705037	Hex. Cap Serow, 1/2"-13 x 1" lg.
U	71751K	Full Lock Hex. Nat. 1/2" -13
1 1	705016	Hex. Cap Screw, 3/9"-16 x 1-1/4" lg.
" "	719001	Plain Washer, 3/3"
X	154177	Spacer
Ϋ́	720002	Luck Washer, 3/4"
, z	717003	Full Hex. Not. 3/4"-16
AA AB	154289 155613	Bearing Arm Assembly, Steering, L.H.
1 AC	713006	Serew, Set, Cup Point, Square Head, 5/16"-18 x 1/2" lg.
AD	157427	Key
AΕ	717520	Full Hex, Linek Nat, 1/27/20
AF	730004	Lack Washer, 1 2
Ali	164272	Ball Joint
į vii	164271	Tio Red
i A-J	717016	. Nut. 1/2**-20 N.F
\K	157113	Steering Wheel
j AL	725003	Woodruff Key =9
AM AN	713503	Socket Head Cup Point Set Serew, 57(6"-18 x 5/16" lg. Socket Hd. Set Serew, 5, 16"-18 x 174" lg.
i Ap	713502 157259	Steering Shaft Assembly
AQ	153041	Spaces
AR	719001	Plain Washer, 3/9"
AS	720002	Lock Washer, 3/4"
AT	715030	Hox Cap Serow, 3/8"-16 x 3/4" lg.
AU	154153	Culversal Joint Pin
AV	157254	Bushing Assembly
AW	157258	Bushing
AN	157253	Pm Secontric
AY	159399	Retainer Bing
AZ Da	720003	Lock Washer
BA	717003	Full Hox. Nut. 2782 - 16
BB BC	713912	Sq. Hd. Set Serew, 1/4**-20 x 3/4** lg. Steering Bracket
BD	157302 154254	Needlo Bearing
BE	720001	Luck Washer, 5/16°
BF	705012	Hex. Cap Science, 5/16"-18 x 5/8"
BG	4061012	Washer
BH	164263	Steering Arm Assembly
B1	164235	Gear Specing
BK	108182	Arbor Washer
BL.	154487	Hub Cap
BM	717519	Gripeo Center Loca (1967) - 14
BN	713025	Hex Cap Serew,
RP	717511	Full Hex. Nat. 57167-18
180	154261	Snap Ring
BR	157246	Retaining Ring
HS 927	157499	Drag Link
] ST BU	154446 157305	Ontside Bearing Valve Stom
T ''`	1-2104	- 3157 % #35.001
<u></u>	1	

VARIABLE SPEED PULLEY

CLUTCH - BRAKE & BELT ADJUSTMENT

The variable speed mechanism is adjusted at the factory under "no load" conditions. In most instances, this adjustment should provide satisfactory operation. If, however, under load or after the "break-in" period, erratic or improper operation is noted, follow the procedures outlined below to make the necessary adjustments.

NOTE

All Adjustments Require The Variable Speed Lever To Be Placed in The "High" Or "Low" Position. Carefully Observe Which Position The Variable Speed Lever Should Se Placed in Before Making Each Adjustment. DO NOT ATTEMPT TO MOVE VARIABLE SPEED LEVER WHEN ENGINE IS NOT RUNNING OR WHEN CLUTCH PEDAL IS DEPRESSED.

CHECK THE FOLLOWING ASSEMBLY ADJUSTMENTS:

- Check bolt and lockmit holding arm assembly to rucker arm.
 (See No. 1). (This adjustment to be made in "High" speed position).
- Check for proper clearance on front helt guard. (See No. 2), (This adjustment to be made in "High" speed position).
- Check for proper clearance of litter pulley belt stop. (See No. 3).
 (This adjustment to be made in "Low" speed position).
- Check for proper clearance between the nuts on the clutch rad and the set collar. (See No. 4). (This adjustment to be made in "Low" speed position).
- 5. With variable speed lever in the "Low" speed position, the belt in the large, rear pulley should be approximately 1/8" below the top of the pulley. (See No. 5).
- Check brake adjustment, (See No. 6). (This adjustment to be made in "Low" speed position).

OPERATING INSTRUCTIONS

- Do not attempt to move variable speed lever when tractor engine is not running or when clutch pedal is depressed.
- 2 Insure that parking brake is fully disengaged before placing tractor in motion.
- Occusionally check and remove foreign objects and debris from variable speed helt and pulleys.

GEAR RANGE AND SPEED SELECTIONS

- To obtain the most desirable results with various attachments on the Sovereign Tractor, it is recommended the tractor engine be operated at 3/4 to full throttle setting.
- 2. When operating attachments such as the 10" Plow, Spring Tooth Harrow or Cultivator, which place a heavy draw-har load on the tractor, it is preferable to operate tractor in 1 or 11 speed rather than 111 speed, low range.

BELT SLIPPAGE

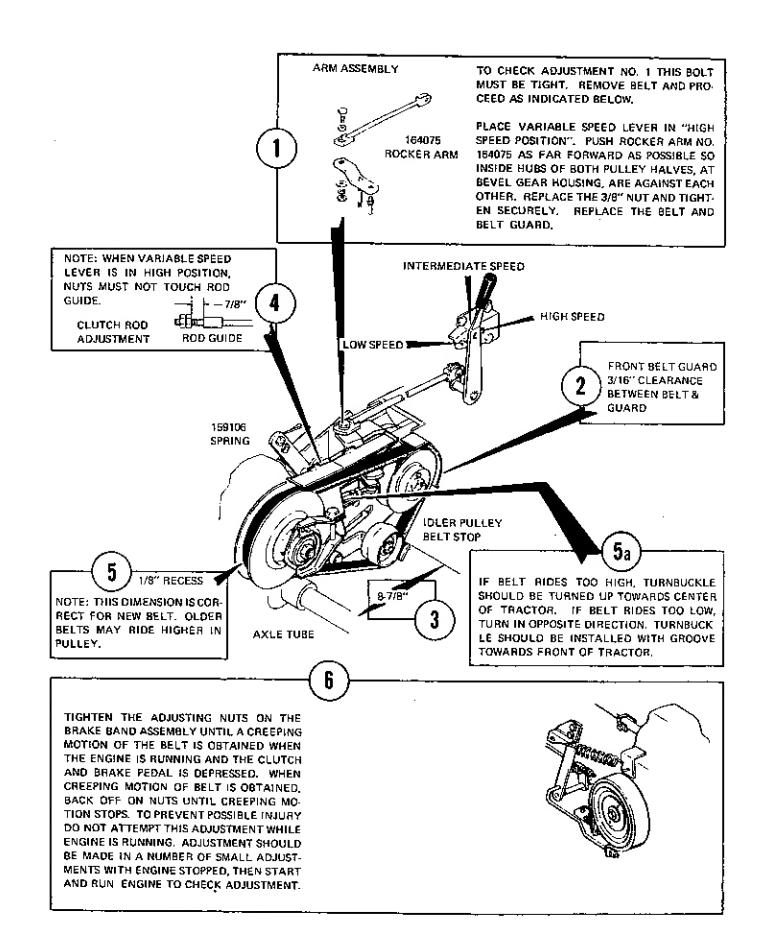
If belt slippage is noted, check the following:

- 1. Check to insure the parking brake is fully disengaged.
- 2. Check No. 4 under Assembly Adjustments.
- 3. Check No. 5 under Assembly Adjustments.
- 4. On early production models the Spring No. 159106 is normally in the top hold. If less spring tension is desired, move spring to next lowest hole of pivot lever assembly. Less tension can be used when moving on level terrain and if clutch pedal is found to be mecomfortably hard for the operator to depress. (See Figure 2). Greater helt tension is necessary to prevent variable speed helt from slipping when tractor and attachment are under heavy load. A slight chattering of the variable speed helt on the pulleys will be noticeable until the helt loses its stickiness and becomes smooth.

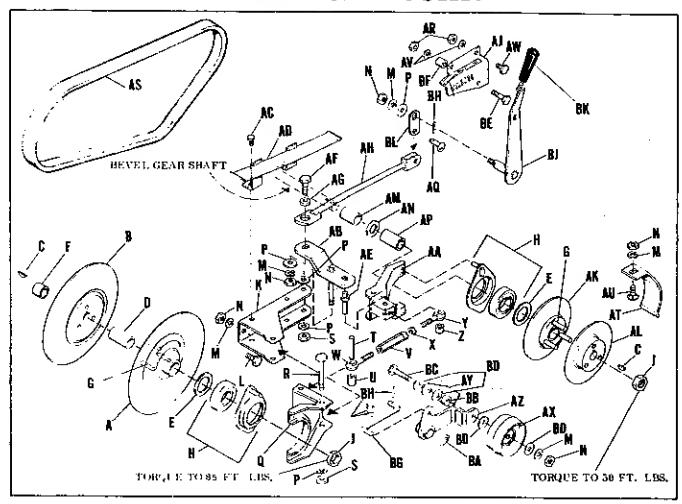
On later production models on further spring adjustment is mercears.

LUBRICATION

If sliding pulley halves stick, lubricate hushing on which pulley rides lightly with a few drops of oil. Excessive lubrication will tend to collect dirt and dust and tend to hamper operation. Also lubricate all clutch and brake lever pivot points and all places where pull rods or links join levers.



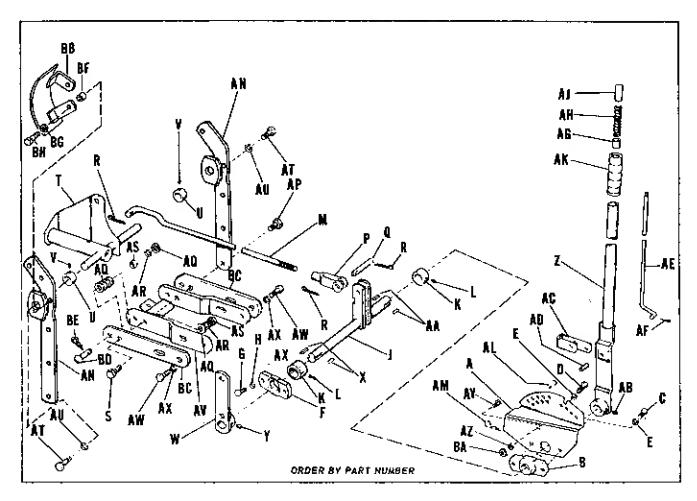
VARIABLE SPEED PULLEY



Ref.	Part No.	Description
14:1,		racser shiften
A	164166	Puller Hall Assembly
B	164162	Pulley Halt
С	725501	Key
D	164067	Driven Stide Spacer's Fellon Contede
Ε	16-1181	Washer
F	164068	Spacer
G	164066	1 ³ ins
11	164211	Retainer Ring/Bearing Assembly
J	717517	Hex Jam Nut, Lock
K	164157	Variable Speed Bracket
Ŀ	705031	Hex Capserew: 3/8/7/16/87/19
31	720002	Lock Washer, 3/8"
N	717003	Hex Nut, 3/8"-16
P	10001	Plain Washer, 3/8"
Q	164035	Transmission Fork Assembly
R	164069	Special Serew
S	717510	: Hex Nut, 3/87-16 Lock
Т	164070	Pivot Pin
U	164071	Spatier
V	164072	Tugnhuckle Hody
W	164073	Eyelidt, R. H.
X	717010	Hex Nat, 3/8"-21
Y	164074	Eyeholt, L. II.
Z	164176	Spacer
AA	164033	Revel Gear Housing Fork Assy.
AB	164075	Fork, Rocker Assy,
AC	715077	Serew, Taptite, 1/1"-20 x 5/8"
AD	164106 16407a	Belt Guard Assembly
AΕ AF	705016	Rod
AG	164105	Hex Capserew, 3/8"*16 x 1s 1/1" lg,
40	(04110)	Sparer

Ref. Let.	Part No.	Description
ΔJ	16H124	Quadrant
All	(64101	Arm Assembly
AK	164171	Pulley-Ralf Assembly
AL.	164167	Pulley Half
AM	164174	Slide Spacer
AN	164175 ;	Stop Washer
AP	164173 .	Slide Spacer (Tellon Coated)
AQ	153058	Pía
AR	717001	Hex Sut, 5/16"-18
.48	104080	"V" Belt
AT	164052	Belt Guard
	703004	Carriage Bolt, 3/8"-16 x 3/4" ig
AY	72000t	Lock Washer, 5/16"
	705012	Hex Capserew, 5/16"-18 x 5/8" lg.
AX	164083	Idley Pulley
AY	164190	Idler Belt Stop
AZ		ldler Lever Assembly
	118240	Retaining Ring
	154177	Spacer
	705000	Hen Capserew, 3/8"-16 x 2" kg.
	719002	Plain Washer, 5/16"
BE	705018	Hex Capserew, 5/16"-18 x 1-1/2" (g.
BF	161125	Spacer
BG	164068	Clutch Link
BH	722001	Cotter Pin
B.3	H64097	Lever Assembly
BK	161180	Handle
131.	161133	Link
1834		Film Quardrant
BN	164130	Film Instruction
1	l	

REAR LIFT DRAW BAR GROUP



Ref. Let.	Part No.	Description
A	154209	Lift Lever Quadrant
В	157620	Lift Lever Bearing
] C	705031	Hex. Cap Screw, 3/8"-16 x 7/8"
l D	705016	Hex. Cap Screw, 3/8"-16x1-1/4"
E	720002	Lock Washer, 3/8"
F	154210	Lift Lever Bearing
G	705031	Hex. Cap Screw, 3/8''-16x7/8''
H	720002	Lock Washer, 3/8"
J	157640	Lift Shaft Assembly
K	157624	Set Collar
L	713503	Set Screw = 5/16"-18 x 5/16"
M	164122	Rear Lift Rud
	154631	Adl. Yoke End
Q	157225	15in
Ř	722006	Cotter Pin, 1/8" x 1"
i s	705047	Hex. Cap Screw, 7/16"-14x1-3/4"
T.	154214	Tiller Lift Assembly
U	8021010	Set Collar
V.	713503	Set Screw, 5/16"-18 x 5/16"
W	157625	Front Lift Lever Assembly
X	157120	Key
Y	713302	Set Surew, 5/16"-18 x 1/4"
2	157628	Lift Lever Assembly
AA	157652	Key
AB	713502	Set Screw, 5/16"-18 x 1/4"
AC	154224	Lift Lever Latch
Ļ		

Ref. Let.	Part No.	Description
AD	723007	Roll Pin
AE	157013	Latch Rod
AF	722001	Cotter Pin, 3/32" x 3/4"
AG	154226	Spacer
AH	152006	Spring
AJ	154227	Thumb Button
AK	156209	Handle Grip
AL	153058	Pin
AM	8161045	Spring Clip
AN	164284	Arm Assembly
AP	705039	Hex. Capscrew, 7/16"-14 x 1-1/2"
AQ I	719001	Plain Washer, 3/8"
AŘ	720006	Lock Washer, 3/8" >
AS	717022	Full Hex. Nut, 7/16"
AT	705041	Hex. Cap Screw, 7/16"-14×1"
AU	720006	Lock Washer, 7/16**
AV	154202	Draw Bar Assembly
AW	705042	Hex. Cap Screw, 7/16"-14 x 1-1/4"
AX	720006	Lock Washer, 7/16"
AY .	715018	Hex Capacrew, 1/4-20 x 5/8"lg.
AZ ;	720003	Lock Washer, 1/4"
BA :	717005	Hex Nut 1/4-20
] BB '	164285	Pulley Guard Assembly
BC	157091	Pull Bar
BD	155037	Round Head Pin
BE	8161045	Spring Clip
BF (164288	Spaces
BC '	720006	Lork Washer, 7/16"
BH.	705039	Hex Capserew, 7/16"-14 x 1-1/2"

TRANSMISSION GROUP

TRANSMISSION GROUP

... ORDER BY PART NUMBER

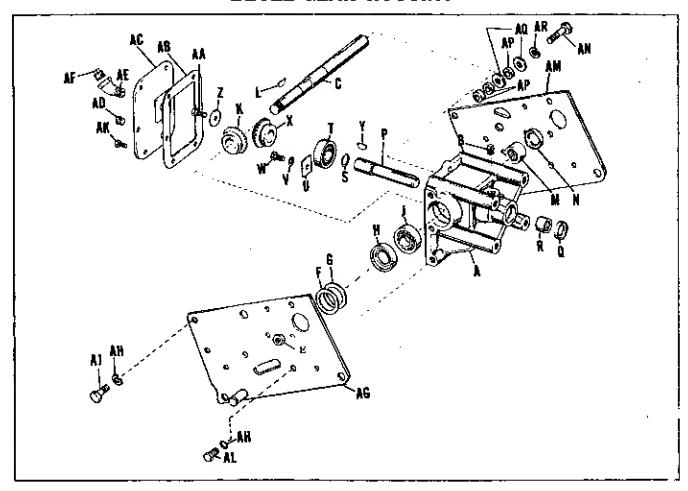
		
Ref.	Part	
Let.	Nφ.	Description
Λ	157516	Case, Gear, Complete w/bearings and dowel pins
^		(includes "B" thru "G")
В	154538	Roll Pin
} C	723007	Roll Pin
) D	154257	Needle Bearing
É	154258	Needle Bearing
F	154259	Needle Bearing
G	157519	Needle Bearing
H H	164250	Shift Rod
] J	154261 717010	Shift Stem Full Hex. Nut, 3/8"-24 N. F.
L	154067	Shifter Shaft Rev., Med.
M	154068	Shifter Shaft High, Low
N N	9061048	Retaining Ring
l p	715019	Set Screw, Hollow Head, Cone Point, 5/16"-18 x 1/2"
l à	154069	Shift Fork
ñ	154323	Spring
s	154262	Shift Lock Ball
T	164293	Pulley Shaft
U	164060	Flinger
V	154264	Retaining Ring
W	164251	Switch Support
X	157619	Oil Seal
Y	118134	Retaining Ring
Z	717001	Hex. Nut Jam, 5/16"-18
AA	154072	Pinion Assembly Rev. II
AB	154075	Pinion Assembly, I and III
AC AD	157290 154263	Shaft, 1st Intra. Oil Seat
AE AE	154078	Ori Sear Driven I, Gear
AF	164294	Kev
λG	154079	Pinion, 1st Intm.
AH	154090	Pinion, Driven, III
AJ	8061012	Trans. Gear Spacer
AK	154081	Driven II Gear
AL	154082	Spacer
AM	154264	Retaining Hing
AN	154083	Reverse Pinion
AP	154087	Reverse Gear
AQ	154084	Rev. Gear Spacer
AR	717516	Lock Nut, 1/2"-20 N.F.
AS	154325	Washer
AT	154086	Shaft, 2nd. Intm.
AU AV	154038 154038	Washer Washer
AW	154354	wasner Key
AX	154266	Retaining Ring
AY	164062	Pixion, 2nd. Intra.
AZ	154267	Key
BA	154089	Gear, 2nd. Intm.
BB	154090	Spacer
BC	154091	Shaft, 3rd. Intm.
BD	154038	Washer
I BE	154038	Washer
BF	154266	Retaining Hing
, BG	154092	Pinion, 3rd. Intm.
ВН	164051	Gear, 3rd. Inim.
BJ	725002	Key Woodruff
ВК	1G4223	Axle Tube w/hushing
<u> </u>	<u>! j</u>	<u> </u>

Continued on next page

CROER BY PART NUMBER

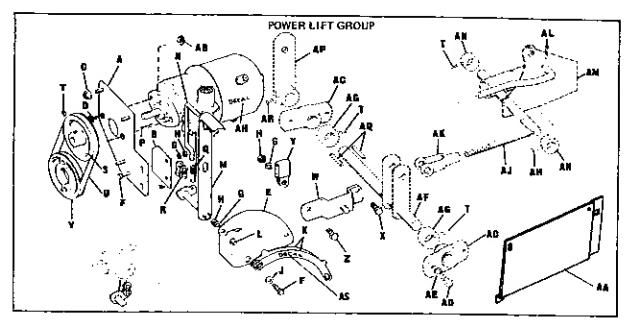
Ref.	Part	
Let.	No.	Description
BL	727002	Grease Fitting
ВМ	154095	Drive Gear
BN	154096	Key
BP	15409?	Washer
BQ	154097	Washer
BR	154268	Snap Ring
BS-	154268	Snap Ring
BT	154130	Axle Tube Washer
₽Ų	154130	Axle Tube Washer
BV)	164221	Bearing
BW	703010	Coronage Bolt 5 16" 18 x 1
ВХ	154269	Seal "
BY	154269	Seal
B2	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4"
CA	154270	Gear Case Gasket
СB	154098	Axle Tube Spacer
CC	16 (226	Gear Case Cover, Complete w/ bearings
CD	154537	Roll Pin
CE	108202	Ball Bearing
CF '	154257	Needle Bearing
CG .	154271	Needle Bearing
ÇН	154259	Needle Bearing
CJ	[57520]	Needle Bearing
CK	726003	Pipe Plug, 3/8"
CL	705007	Hex. Cap Screw, 5/16"-18 x 1"
CM	720001	Lock Washer, 5/16"
CN	154352	Rev. Gear Pin Assembly
CP	726003	Pipe Plug, 3/8"
୯ନ	705019	Hex. Cap Screw, 5/16"-19 x 1-1/4"
i li	7150H	Hex Jum Nut 5/16" 18
CS	154462	Waster

BEVEL GEAR HOUSING



Ref. Let.	Part No.	Description
Α	154062	Bevel Gear Housing, W/Bearings
В	15432G	Pipe Plug
С	164114	Drive Shaft
E	717517	Hex Jam Nut
F	154137	Shim (As Required)
G	154138	Shim
H,	154278	Oil Seal
J	118011	Ball Bearing
K	154139	Bevel Driven Gear
ļ L	725003	Key
i Mi	154279	Needle Bearing
N	118117	Qi) Seal
[P]	157426	Driven Shaft
Q	154263	Oil Seal
R	154258	Needle Bearing
] s	118134	Relaining Ring
Т	116011	Ball Bearing
Įυ	154040	Bearing Clamp Plate
V	720001	Lock Washer, 5/16"

Ref.	Part No.	Description
w	705012	Hex Capserew, 5/16"-18 x 5/8" lg.
X	154121	Bevel Driven Gear
Y	725003	Key
2	154026	Washer
AA	154281	Hex Capserow, 5/16"-18 x 3/4" lg. 1
AB	154282	Gasket
AC 3	164249	Housing Cover Assembly
AD ;	726002	Pipe Plug
AE !	728501	Street Elbow
AF .	726003	Pipe Plug
AG	164177	R, H. Side Plate
AH	720006	Lock Washer, 7/16"
) AJ	705041	Hex Capscrew, 7/16"-14 x 1" lg.
AK	707003	Hex Capscrew, 1/4"-20 x 5/6" lg.
AL	705042	Hex Capscrew, 7/16"-14 x 1-1/4" lg.
AM	164179	L. H. Side Plate
AN	705064	Пих Сарыстик, 7/16″-14 х 2″ Ig
AP	157168	Spacer
AO .	719003 -	Washer, 7/16"
AR	720006	Lock Washer, 7/16"



Ref. Let.	Part No.	Description
A	157587	Pump Support Assembly
В	157428	Angle Bracket
С	718033	Hex. Nut, Whiz Lock, 5/16"-18
ם	709002	Machine Screw, Flat Hd.
į	!	3/8-16×1-1/4"lg.
E	157199	Quadrant
F	715057	Hex. Cap Screw, 1/4"-20 x 3/4"
G	720003	Lock Washer, 1/4"
н.	717005	Full Hex. Nut, 1/4"-20
ηJ i	719006	Plain Washer, 1/4"
K	157204	Stop Plate
[Ն	157205	Spacer
M	157200	Lever Assembly
N	157206	Latch Rod
P	722016	Cotter Pin, 3/32'' x 5/8"
િ	157207	Spring
R	157208	Connecting Link
S	157430	Pump Pulley
T	713503	Set Screw, 5/16"-18 x 5/16"
U	157230	''V'' Belt
ν,	157/84	Drive Pulley

Ref. Let.	Part No.	Description
W X Y Z AA AB AC AD AE AF AG AH AJ AK AL AM AN AP AQ	1 ''	Description Pivot Bar Assembly. Hex. Cap Screw, 5/16"-18 x 1" Hose Clamp Hex Cap Screw, 1/4"-20 x 1" Panel, Side L. H. Nul. Whiz-Lock Flange 3/8"-16 Lift Lever Bearing Hex. Cap Screw, 3/8"-16 x 7/8" Lock Washer, 3/8" Lift Shaft Assembly Set Collar Decal Lift Rod Adj. Yoke End Cotter Pin, 1/8" Dia. x 1" Tiller Lift Assembly Set Collar Front Lift Lever Assembly hey
AR AS	713502 157232	Set Screw, 5/16"-18 x 1/4" Film

INSTRUCTIONS FOR ADJUSTING HAND LEVER AND FLOAT STOPS OF QUADRANT ON POWER LIFT UNIT

Attach pump to pump support assembly \$157587. Then attach support assembly to fuel tank and steering post support. Attach lever with connecting link to valve spool shaft.

Place the lever #157200 with the latch rod #157206 in the exact middle of the two hex cap screws "F" located in the quadrant #157199. This is done by adjusting the angle bracket #157428 and quadrant #157199 up or down on the support #157687. Tighten the capserews scenning the bracket and quadrant to the support.

Move lever to most extreme position (front or rear). Bring stop plate up so notch is striking rod \$157206 and secure capscrew (F) furthest from bandle. Report procedure to the other extreme for other stop plate.

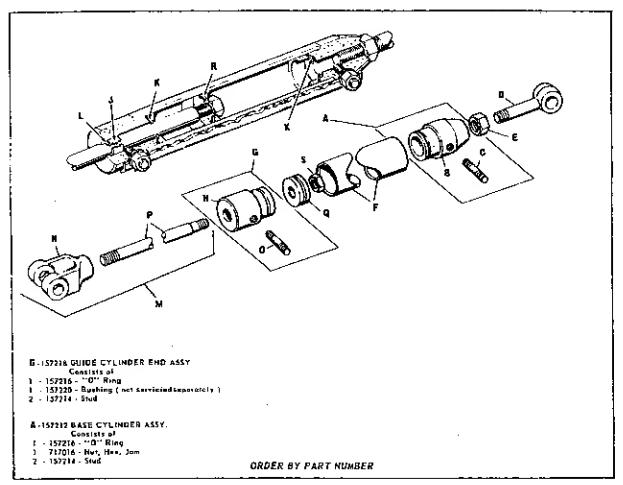
Check rod #157206 in both positions. This rod is not to have ANY FREE MOVEMENT when in front or rear float position. Excessive play at this point increases back pressure on the pump and may cause overheating of the pump. If pump is moved to lift position (front or tear) and then drops the load before entering float position, readjust the hand lever to center of quadrant as described above. Oil lever and rod to insure free movement.

The bolls holding the pump and tank together should be checked and lightened to torque or 50-60 INCH POUNDS.

CAUTION DO NOT OVERFILL

CAUTION DO NOT OVERFILL

POWER LIFT GROUP



Ref.	Part No.	Description
A B C D E P G H J	157212 157213 157214 157215 717016 157217 157218 157219 157220	Cylinder Base Sub-Assembly Cylinder Base Stud Bolt, 5/16"-18 v 7/4" Bolt Eye Jam Rex. Nut, 1/2"-20 Cylinder Sub Assembly Guide Cylinder End Guide Bushing

Ref. Let.	Pari No.	Description
KLMRPQHS	157216 157221 !57222 157223 157224 157226 157227 717009	··O' Ring ··O' Ring Yoke & Rod Sub-Assembly Yoke Piston Rod Piston ··O' Ring Full Hex. Not

CAUTION

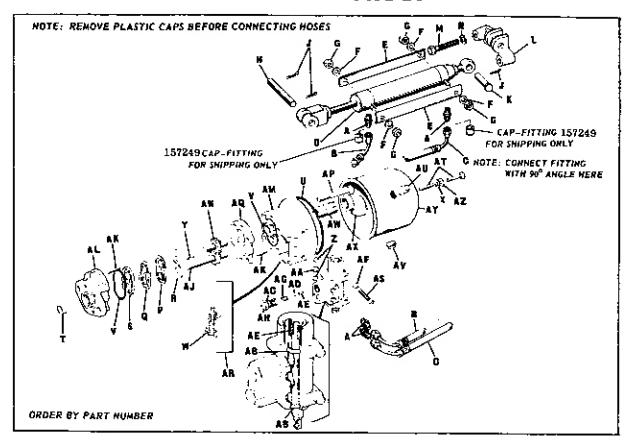
IT IS VITALLY IMPORTANT THAT THE HYDRAULIC FLUID AND ALL INTERNAL PARTS OF THIS UNIT BE KEPT COMPLETELY CLEAN AND FREE OF FOREIGK NATTER OF ANY TYPE.

USE OTMOST GARE IN ADDING OR CRECKING FLUID, ARD IN PERFORMING ANY SERVICE ON INTEGRAL PARTS.

(For instance if a litting or other part is dropped up a quetaminated surface, the part must be confully washed and dried before re-using.)

REMEMBER-NYORAULIÇS DEMARD CLEAKLINESS

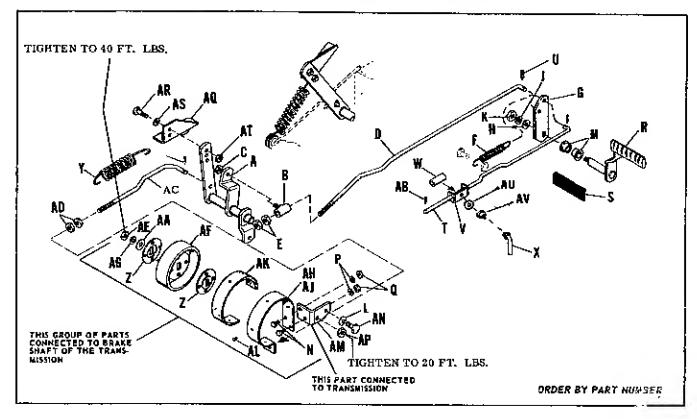
POWER LIFT GROUP



Ref. Let.	Part No.	Description
А	164277	Fitting
B	157210	Hose Assembly
ĺč	157211	Hose Assembly
ا م	157236	Cylinder Assembly
Ë	157228	Side Har
F	720001	Lock Washer, 5/16"
G	717001	Full Hex. Nut. 5/16"-18
l ñ	157225	Pin
J	722009	Cotter Pin, 1/8" x 3/4"
l ĸ l	157194	Ram Bracket Pin
1.	157001	Ram Bracket
M	705052	Hex. Cap Screw
i 1		7/16"-14 × 2-1/4"
N I	720006	Lock Washer, 7/16"
P	157433	Heat Shield (for service only)
Q	157434	Gasket
R	157435	Wear Plate
S	157436	Seal
т	157437	Rotary Seal
U	157438	"O" Ring
V	157439	"O" Ring
w	157404	"O" Ring
X	157441	Stat-O-Seal
Y	157442	Shaft Drive Key
Z	157406	"O" Ring

Hef. Let.	Part No.	Description
LALLY	NO.	Description
AA	157407	"O" Ring
AB	157405	"O" Ring
AC	157444	"O" Ring
AD	157445	Ball "
AE	157446	Pin Cam
AF	720003	Lock Washer 1/4"
AG	157448	Spring
AH	157449	Cage
ΑJ	157450	Drive Gear Assembly
ĄK.	157451	Dowel Pin
AL.	157452	Front Cover Assembly
AM	157453	Back Cover Assembly
AN	157454	Driven Gear Assembly
AP	157455	Bolt
AQ	157456	Center, Section Machined
AR	157457	Relief Valve Assembly
AS	157459	Screw
AT	157460	Screw
ΑU	157462	Filler Cap Plug
AV	157463	Drain Plug
AW :	157464	Inlet Nipple
AX	157465	Inlet Elbow
AY	157461	Tank Assembly
AZ	719006	Flat Washer, 1/4**

CLUTCH AND BRAKE GROUP



Ref. Let.	Part No.	Description
AG AH AJ AK	717003 717022 157282 720006 164111 164112 154133 724501	Special Washer Washer, Plain, 3/8" Cotter Pin, 3/32" x 3/4" lg. Brake Rod Hex Nut, 3/8"-16 Hex Nut, 7/16"-14 Brake Drum Lock Washer, 7/16"-14 Brake Band Assembly Brake Band Brake Lining Rivet Brake Band Bracket Hex Capserew, 3/8"-16 x 1" lg. Hex Nut, 3/8"-16 Spring Bracket Hex Capserew, 5/16"-18 x 3/4" lg. Lock Washer, 5/16" Hex Nut, 5/16"-18 Plain Washer, 7/16" Spring

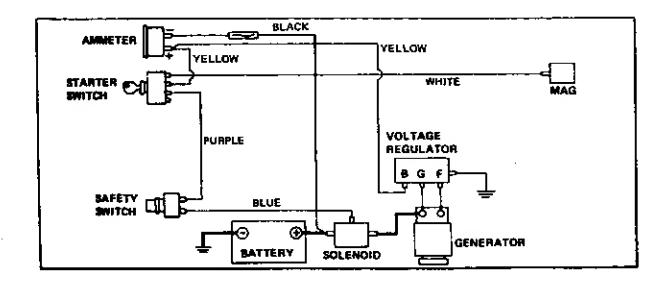
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ELECTRIC STARTER-GENERATOR SYSTEM

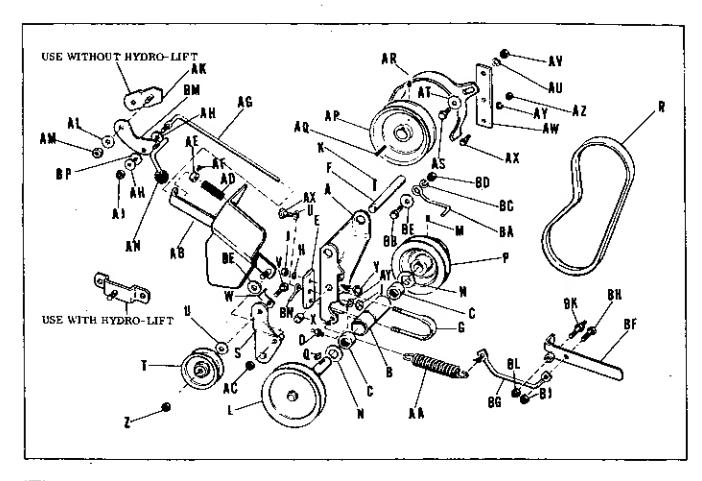
Ref. Let,	Part No.	Description
Α	122236 **	Motor - Generator
В	122213	Generator Start Cable
С	122023	Terminal Cover
D	122140	Reg. Gen. Wire
E	157524	"V" Belt
F	157654	Support Assembly
G	720001	Lock Washer, 5/16"
H	715048	Hex. Capscrew,5/16-18 x 3/4" lg.
J	720001	Lock Washer, 5/16"
к	717001	Full Hex. Nut, 5/16" - 18
L	705019	Hex, Capscrew,5/16"-18 x 1-1/4"
М	122193 **	Voltage Regulator
N	164254	Bracket
Р	705030	Hex.Capscrew, \$/4-20 x 3/4" lg.
Q	720003	Lock Washer, 1/4"
R	717005	Full Hex.Nut, 1/4"-20
s	157102	Belt Tightener
т	705017	Hex.Capscrew,5/16-18 x 3/4" lg.
U	719002	Plain Washer, 5/16"
l v	720001	Lock Washer, 5/16"
t w	717001	Full Hex.Nut, 5/16"-18
X	122190	Battery
Y	122204	Cable (Battery to Solenoid)
Z	122138	Cable (Battery to Ground)
i AA	705015	Hex,Capscrew,1/4-20 x 5/8" ig.
AB	720003	Lock Washer, 1/4"
AC	717005	Full Hex.Nut, 1/4"-20
AD	122142	Battery Insulation

Ref, Let	Part No.	Description
	122143 122195 164256 165074 122216 717005 122131 122172 717007 122147 122233 122201 721003 714005 721509 122183 122173 122174 720003 718042 122199 122203 122235	Fuel Tack Insulation Wire Clamp (Generator Cable) Harness Assembly Speed Clip Solenoid Full Hex. Nut, 1/4"-20 Ammeter Fuse, 20 AMP Full Hex. Nut, 10-32 Wire (Ground to Ground) Safety Switch Starter Switch w/Kays Lock Washer, ext. No. 10 Rd.Hd.Screw 10-24 x 1/2" Lock Washer Int, 9/16" Clip Fuse Battery Bracket "J" Bolt Lock Washer, 1/4" Wing Nut Film (SIMPLICITY) Keys Hex Nut - Special
BD BE	166174 122234	Switch Support Nut

^{**} FOR SERVICE CONTACT YOUR LOCAL UNITED MOTOR SERVICE DEALER (DELCO-REMY)



POWER TAKE-OFF

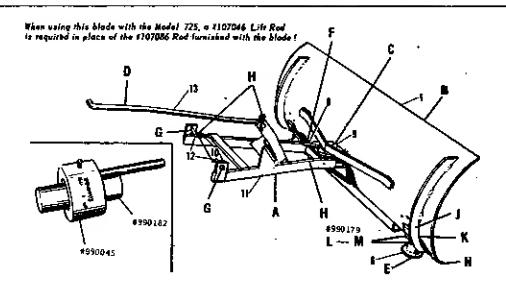


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Ref.	Part	
Let	No.	Description
A	157245	P.T.O Bracket
	157269	Bearing Mousing
l ĉ l	154258	Needle Bearing
اۃا	727001	Grease Fitting
Ε	157645	Support Plate
E	154233	Pivot Rod, 5/9" Dra.x 6-13/16"
انا	157270	"U" Bolt
H		
1 7	720001	Lock Washer, 5/16"
K	717001	Full Hex. Nut, 5/16"-18
	722007	Cotter Pin, 3/16" Dia, x1-1/2"
L	157266	Shaft Assembly, P.T.O.
M	713503	Set Screw, 5/16"-18 x 5/16"
N	8061012	Washer
l lı	157116	P.T.O. Pultey
Q	725003	Woddruff Key +9-3/16" x 3/4"
R.	164146	···V'' Belt
S	157263	ldler Lever Assembly
T	154534	ldler Pulley
tr	719002	Plain Washer, 5/16"
V	705016	Hex. Cap Screw, 3/8"-16 x 1-1/4"
W	157423	Stop
X	157272	Spacer
Y	157288	Retaining Ring
7	717510	Full Hex. Nut, 3/8"-16
AΛ	157262	Tension Spring
AB	164153	Rod Guide Assembly
, AC	717310	Full Lock Hex. Nut, 3/8"-16
AD	8191045	Spring
AE	B191022	Set Collar
AF	713001	Set Screw, 1/4"-20 x 3/8"
AG	164149	Clutch Rod Assembly
i	L	

Roja Leta	Part No.	Description
АН	719002	Plain Washer, 5/16"
AJ	717525	Elastic Stop Not, 5/16-18
AK	154362	Pivot Bar Assembly
AL.	719001	Plain Washer, 3/8"
AM	717510	Full Lock Rev. Nat, 3/8"-16
AN	122005	Knoh
AP	157121	Pulley
AQ	8061041	Kev
AR	164152	Pelt Guard Assembly
AS	705005	Hex. Cap Screw, 3/8"-16 x 1"
AT	719001	Plain Washer, 3/4"
AU	720002	Lock Wisher, 3/8"
۸۷	717003	Full Hex. Nut, 3/9"-16
AW	157050	Belt Guard Support
AX	705007	Hex. Cap Screw, 5/16"-18 x 1"
AY	720001	Lack Washer, 5/16"
AZ]	717001	Full Hex. Nut. 5/16"-18
BA	161080	Belt Stop
BB	705007	Hex Capscrew, 5/16-18 x t*1g,
BC	720001	Lock Washer, 5/16
BD	717001	Hex Nut, 5/16-18
BE	719002	Plain Washer, 5/16
BF	164155	Handle Assembly
BG	157291	Spring Tension Hod
BH 1	705019	Hex. CapScrew, 5/16"-18 x L-1/4"
BJ :	717511	Full Lock Hex. Nut. 5/16"-18
BK	157273	Stud
ÐL	717519	Full Lock Hex. Nut. 7/16"-14
BM	154356	Clutch Lever Assembly
BN	121044	Belt Guide
ЯP	159134	Special Washer

42" SNOW PLOW & DOZER

MFR'S. NO. 119



FACKING

The 42" snow plow and dozer comes packed complete in one bundle.

ASSEMBLY

Attach push bar (11) to blade (1) using king pin (9) and install a spring clip through the king pin. Attach the frost lift rod (13) to the push bar as shown. Drop the pivot pin (8) thro the blade assembly bracket and push bar.

ATTACHMENT

To attach the 42" snow plow and dozer to the LANDLORD Riding Tractor, all that is required is to connect pins (12) to the tractor front hitch and safety clip (10); and to connect the front lift rnd (12) to the tractors lift arm.

OPERATION

Alternate holes are provided to permit adjustment of the shoe assemblies (6) for raising or lowering the blade when cleaning gravel drives or walks. When cleaning concrete it is desirable to allow the blade to scrape the surface.

The angle of the blade is adjustable to permit plowing to the left or right by moving pivot pin (8) to the desired hole in the blade mounting bracket.

For ease of lifting equipment, it is well to use the counterweight (990182) and additional weight (990085) when using the 42" snowplow and grader on the LANDLORD Riding Tractor. These counterweights are mounted on the rear lift assembly.

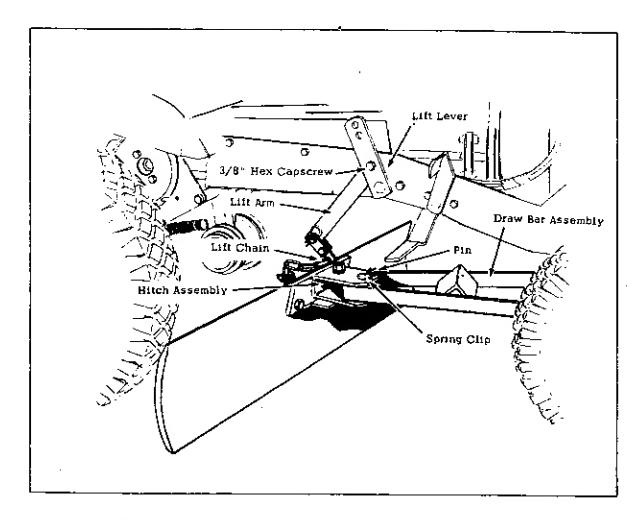
When using this equipment it is recommended that chains and wheel weights be installed on the tractor. Loose mounting of the chains will make them solf-cleaning.

— Order by Port Number

Reference Letter	Part No.	Description
Α	107049	Push Bar Assembly
₿	107047	Blade Assembly, 42"
С	8181008	Pin, King, 1/2" dia. x 2-1/2" lg.
D	107143	Rod, Front Lift
E	107024	Shoe Assembly
F	8181003	Pin, Pivot
G	118053	Pin
H	106788	Clip, Spring
J	702002	Bolt, Carriage, 3/8" - 16 N.C. x 1" lg.
ĸ	702003	Bolt, Carriage, 3/8" - 18 N.C. x 3/4" lg.
L	720002	Washer, Lock, 3/8"
M	717003	Nut, Hex., Full, 3/8" - 16 N.C.
N	107045	Plate, Wear

42" GRADER BLADE

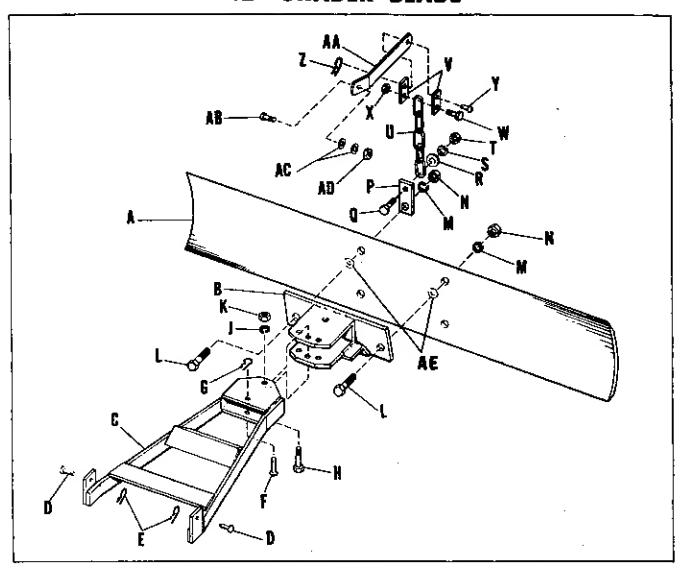
Mfr's. No. 237



The 42" Grader Blade is attached to the tractor as shown in the above illustration by following the sequence of steps as outlined below.

- Position the grader blade under the tractor so that the draw bar assembly may be connected to the front bltch brackets of the tractor. Secure in place with 2 pins and spring clips.
- Attach the lift lever to the lift arm of the tractor as shown, placing 2 plain
 washers between the lift lever and lift arm. Fasten securely with a 3/8"
 hex head capacrew and lock nut.
- Attach the lift chain and links to the lift lever with a pin and spring clip so that the blade can be lifted high enough to clear the ground when transporting from one location to another.
- 4. When desired, the blade may be angled to the left or right by removing the pin and apring clip from the center hole in the hitch assembly. Lock the blade in desired position by replacing the pin and spring clip when the alternate holes in the hitch assembly line up with the hole in the draw bar.

42" GRADER BLADE



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Order	hν	Part	Number	

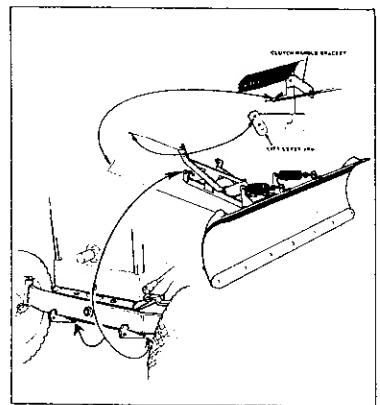
Ref. Letter	Part No.	Description
A B C D E F G H I K L M N P Q	107056 107058 107062 118053 8161045 8161008 8021024 705056 720005 717004 705055 717004 107057 705005	Blade, Grader, 42" Hitch Assembly Draw Bar Assembly Pin Spring Clip Pin Spring Clip Capscrew, Hex Head, 5/8"-11 NC x 3 1g. Lockwasher, 5/8" Nut, Hex, Full, 5/8"-11 NC Capscrew, Hex Head, 5/8"-11 NC x 2" lg Lockwasher, 5/8" Nut, Hex, Full, 5/8"-11 NC Link Capscrew, Hex Head, 3/8"-16 NC x 1 1/4" lg.
<u></u>	1.	

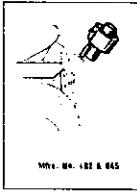
Order by Part Number

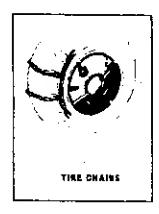
Ref. Letter	Part No.	Description
R	719001	Plain Washer, 3/8"
8	720002	Lock Washer, 3/8"
T	717003	Nut, Hex, Full, 3/8"-16 NC
ប	107031	Chain
V	108199	Link
w	705005	Capscrew, Hex Head, 3/8"-16 NCx 1 1/4" lg.
x	717510	Nut, Hex, Full, Lock, 3/8"-15 NC
Y	153058	Pin
Z	B161045	Spring Clip
AA	108198	Lever
AB	705016	Capscrew, Hex Head, 3/8"-18 NC x 1 1/4" lg.
AC	719001	Plain Washer, 3/8"
AD	717510	Nut, Hex, Full, Lock, 3/8"-16 NC
AE	121210	Flat Washer, 1-1/16"

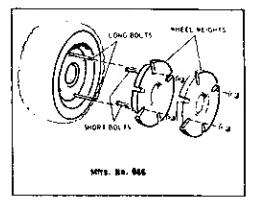
46" DOZER BLADE

Mfrs. No. 356









The 46" Snow plow and Dozer blade can be used with out any weights or chains. HOWEVER, by using these items, plowing and dozing will be done more effectively and efficiently.

Using the rear counter weight (Mfg. # 182 with # 045) will ease lifting of the front mounted attachments. This is mounted on the rear lift assy. Using wheel weights (1 or 2 on either side) will provide more traction. By adding chains with the wheel weights additional traction will be experienced. Loose mounting of the chains will assist in their self cleaning.

OPERATION

There are five operating positions for this blade. The position can be changed by the operator without leaving the seat. Turn the control rod clockwise to unlatch the blade. Push or pull rod to the desired position. For ease of changing positions, raise blade slightly from the ground.

By adjusting the shoe assembly, various blade heights can be achieved. Increased height adjustment can be done by adjusting the stoppin in the lift lever quadrant.

If the blade is used with the Hydralic unit, front or rear float position can be utilized. Using the front float position will provide a downward pressure on the blade. Rear float will give an upward pressure. HOWEVER in either position the blade will follow the ground. The Hydralic Unit can be used for a stationary position also.

The wear plate is reversable. When one side is worn, remove the bolts turn plate around and reinstall bolts.

LUBRICATION

Lubricate all joints where rods enter holes. Also lubricate pivot points. Periodic lubrication will assist in ease of operation.

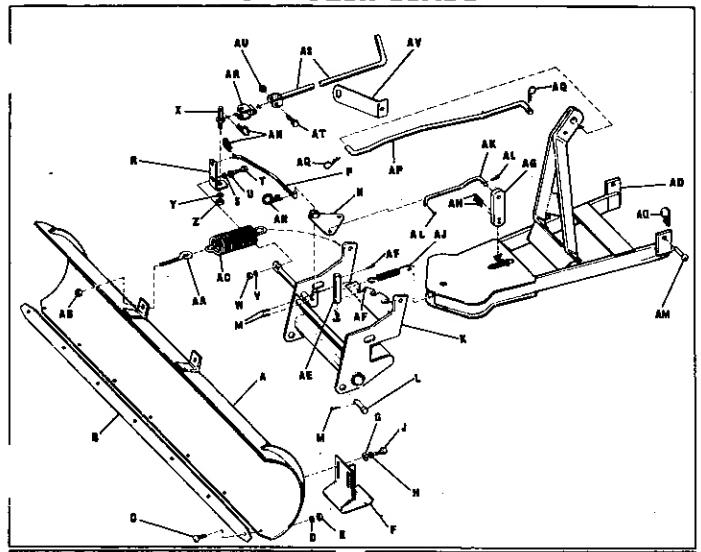
PACKING

The 46" Snow Plow and Dozer Blade comes in one carton with all necessary hardware.

ASSEMBLY

Attach hitch assembly to blade assembly, using the two yoke pins and cotter pins provided. Using the two eye bolts, attach spring from hitch to blade. Allow 1/2" of thread to show thru nuts. Attach to tractor as indicated in Fig. 1 with the two pins and spring clips. Attach blade direction rod bracket to top screw on right hand side of the Fuel Tank & Steering Post Support Assembly. See Fig. 1. (If this bracket has been installed for usage with another implement, it need not be removed). Attach lift rod to tractor lift lever (top Hole) and to plow. Fig. 1. Insert blade direction rod thru bracket and attach to blade. Secure in place with spring clips-

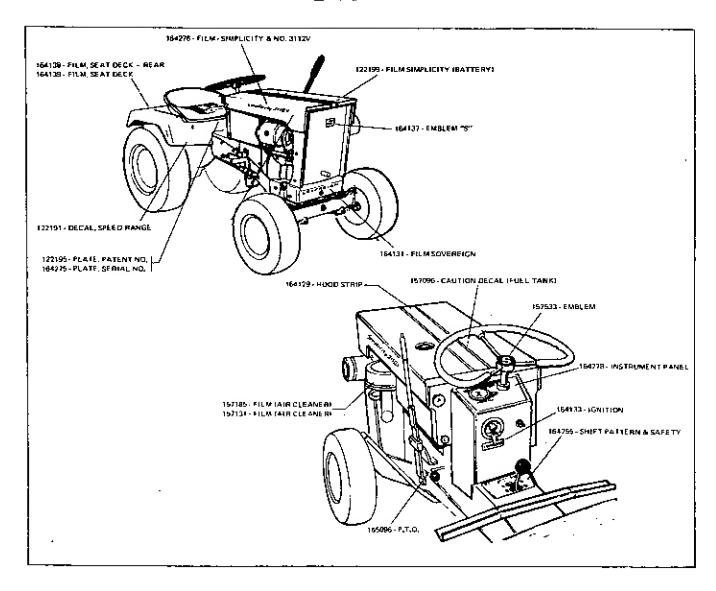
46" DOZER BLADE



Ref. Let.	Part No.	Description
A	107096	Blade Asa'y
В	107105	Wear Plate
C	702002	Carriage Bolt, 3/8"-16 x 1" lg.
D i	720002	Lock Washer 3/8"
E	717003	Full Hex Nut 3/8"-16 N.C.
F	107106	Shoe Ass'y.
G	719001	Flat Washer 3/8"
H	720002	Lock Washer 3/8"
J	705004	Hex. Cap Screw 3/8" - 16 x 3/4"
K	107109	Pivot Frame Ass'y
L	154305	Yoke Pin
М	722006	Cotter Pin 1/8 Dia. x 1"
N	107116	Pivot Plate Ass'y
P	107118	Pivot Rod
Q	106687	Bracket
R	107119	Pivot Arm
S	156150	Spacer
Υ	705007	Hex CapScrew5/16"-18 x 1" lg.
ប	719002	Plain Washer 5/16"
**	720001	Lock Washer 5/16"
	717001	Full Hex. Nut 5/16"-18 N.C.
(107120	Pivot Stud

Ref. Let.	Part No.	Description
Y Z AAB ACC AAB AAC AAF AAG AAH AAN AAP AAR AAT AU	720001 717001 107121 717001 101126 107122 107133	Lock Washer 5/16" Full Hex. Nut 5/16"-18 Eyebolt Full Hex. Nut 5/16"-18 Spring Push Bar Ass'y Pivot Pin 5/8" Dia. x 3-3/8" ig. Cotter Pin 3/16 x 1-1/4" ig. Latch Roll Pin 7/32" Dia. x 1" ig. Latch Spring Latch Rod Cotter Pin 3/32" Dia. x 5/8" (Hitch) Pin Spring Clip Front Lift- Rod Spring Clip Fork Ass'y Handle Ass'y Hex. Cap Screw 5/16"-18 x 1-1/2" Full Lock Hex. Nut 5/16"-18
L		

DECALS



FRONT COUNTER WEIGHT . . MFR. NO. 223
REAR COUNTER WEIGHT , . MFR. NO. 182
WEIGHT (USE WITH 182) . . . MFR. NO. 045
WHEEL WEIGHT MFR. NO. 536

